

Hexcel® Fibrelam® 2000 Grade 1 Panels for Aircraft Flooring

Category : Other Engineering Material , Polymer , Thermoset , Carbon Fiber/Thermoset Composite

Material Notes:

Designed for aircraft use where weight is critical, Fibrelam® 2000 structural sandwich panels utilize ultra light weight woven carbon prepreg skins bonded to high-strength aramid honeycomb to reduce weight without sacrificing performance. In addition to offering outstanding mechanical and physical properties, Fibrelam® 2000 panels are easy to install, and can be easily cut and machined on equipment normally found in airline maintenance shops. Fibrelam® 2000 panels are approved and qualified for use as flooring by major aircraft manufacturers and airlines worldwide. Information provided by Hexcel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-Fibrelam-2000-Grade-1-Panels-for-Aircraft-Flooring.php

Descriptive Properties	Value	Comments
Burn Length (mm)	99	BSS 7230; Flammability: 60 Second Vertical Ignition
Drip Extinguish Time (sec)	0	BSS 7230; Flammability: 60 Second Vertical Ignition
Glow Time (sec)	0	BSS 7230; Flammability: 45 Degree Test
Impact Resistance (N-m)	1.4	
In-Plane Shear (N/mm)	61	
Insert Shear (N)	4500	
Long Beam Bending Deflection (mm)	12	MIL-STD-401B; At 445N (100lb)
Long Beam Bending Load (N)	1290	BSS 7250 Humidity; Humidity Resistance Load (100% at 60°C (140°F) for 30 days)
	1330	MIL-STD-401B; Core Ribbon, Transverse
Panel Shear Strength (N)	3220	MIL-STD-401B 3 point loading; Load on Splice
	3560	MIL-STD-401B 3 point loading;
Sandwich Peel (N/76 mm)	427	MIL-STD-401B 3 point loading; Core Ribbon, Transverse
Self-Extinguish Time (sec)	0	BSS 7230; Flammability: 60 Second Vertical Ignition
	1.2	BSS 7230; Flammability: 45 Degree Test
Stabilized Core Compression (N/mm ²)	13.8	
Warp (mm/m), max	0.8	

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